

U.S. Application No. 10/608,335
Response to Office Action dated January 18, 2007

Attorney Docket: 500.42880X00

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): A learning condition judging program embodied on a computer readable medium, the program executable in an information processing apparatus connected to a near infrared measuring device, and the program operable on the information processing apparatus to perform the steps of:

starting a learning program in said information processing apparatus;

continuously acquiring, as said learning program progresses, measurement information of a blood flow rate in a brain of a user of said information processing apparatus, said measurement information being obtained from said near infrared measuring device through an information acquiring means;

acquiring input information and operation information given by said user to said information processing apparatus through input means, wherein the input information and the operation information indicate progress of said learning program;

acquiring audio or video information of said user of said information processing apparatus so as to obtain attention information of said user through at least one of a microphone and a camera connected to said information processing apparatus;

judging a degree of concentration of said user ~~on~~ to said learning program using said measurement information of said blood flow rate and said attention

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information; and

displaying said degree of concentration of the user and said attention information of the user with said progress of said learning program.

2. (canceled).

3. (currently amended): A learning condition judging program embodied on a computer readable medium, the program executable on a computer, and the program operable on the computer to perform the steps of:

acquiring concurrently, through input means, information of contents executed in a connected terminal, information of a blood flow rate in a brain of a user of said terminal, and operation information and input information given by said user to said terminal;

analyzing a rate of change in hemoglobin concentration from said blood flow rate;

acquiring audio or video information of said user of said information processing apparatus so as to obtain attention information of said user through at least one of a microphone and a camera connected to said terminal;

judging a degree of concentration of said user ~~on~~ to said information of contents using said analyzed rate of change in hemoglobin concentration at a corresponding time and said attention information; and

displaying said degree of concentration of the user and said attention information of the user with corresponding time of said information of contents.

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4-6. (canceled).

7. (previously presented): A learning condition judging program according to Claim 3, further operable on the computer to perform the step of:
giving notice to said user of said terminal in accordance with a result of said step of judging said degree of concentration.

8. (canceled).

9. (previously presented): A learning condition judging program according to Claim 3, further operable on the computer to perform a step of judging whether said input information is a correct answer to an exercise included in said learning contents or not is further provided; and
wherein said step of judging a degree of concentration also uses a result of the step of judging whether said input information is a correct answer.

10. (previously presented): A learning condition judging program according to Claim 3, further operable on the computer to perform the step of:
providing an answer judging means for judging whether said input information is a correct answer to an exercise included in said learning contents or not,
wherein said step of judging a degree of concentration also uses a result of said answer judging means.

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11. (previously presented): A learning condition judging program according to Claim 9, further operable on the computer to perform the step of:
displaying, on the display, information of said degree of concentration and information of a rate of correct answers for each exercise included in said learning contents, said rate of correct answers being obtained from the result of the step of judging whether said input information is a correct answer.

12. (previously presented): A learning condition judging program according to Claim 10, further operable on the computer to perform the step of:
displaying, on a display, information of said degree of concentration and information of a rate of correct answers for each exercise included in said learning contents, said rate of correct answers being obtained from said result of said answer judging means.

13. (currently amended): A system comprising:
a near infrared measuring device;
a terminal connected to said near infrared measuring device for measuring a blood flow rate in a brain of a user of said terminal; and
a server connected to said terminal through a network,
wherein said server includes a recording means for recording contents information;
wherein said terminal includes:
means for continuously acquiring measurement information from said near

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infrared measuring device;

a display for displaying said contents information received from said server; and

input means for accepting input instructions and operation instructions for said displayed contents information, wherein the input instructions and operation instructions indicate progress of a user's learning of the contents information;

means for acquiring audio or video information of said user so as to obtain user's attention information;

wherein said server further includes:

a storage for storing inputs from said input means, said measurement information from said near infrared measuring device, said acquired audio or video information as attention information of the user, and said displayed contents information at corresponding times in association with one another; and

means for judging a degree of concentration of the user ~~on~~ to the contents information, based on said measurement information from said near infrared measuring device and said attention information; and

means for displaying to said display said degree of concentration of the user and said attention information of the user with corresponding time of the contents.

14. (previously presented): A learning condition judging program according to Claim 1, wherein said video information of the user is acquired as facial information or head behavior information of the user, and said camera judges as to whether the user is present in front of the screen or not, the direction of the head of

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the user, and expression of the user.

15. (previously presented): A learning condition judging program according to Claim 1, wherein said audio information of the user is acquired as text information which is extracted from voice of the user through said microphone.